Care across the continuum, from point-of-injury to recovery

21 November 2017 | Great Hall, Imperial College London
Timetable

This year’s event is comprised of three sessions and one keynote address. Each session will begin with a moderator introduction and will be followed by a panel discussion, a series of rapid-fire podium presentations and an associated poster session. Networking opportunities over refreshments and food will take place throughout the day.

This programme has been accredited by the Royal College of Surgeons of England for up to 5.0 CPD points as well as by the US Navy Medicine Professional Development Center for CME and CNE for up to 6.5 AMA PRA Category 1 credit(s).”

Registration and Introduction
09:00 Registration

09:30 Introduction
Professor Anthony Bull | Centre Director, Imperial College London

Session 1: Injury Prevention and Pre-hospital Care
09:40 Session Introductions by the Moderators
COL Jim Czarnik | US Medical Liaison to the UK Ministry of Defence
Professor Mark Wilson | Clinical Professor of Brain Injury, Imperial College London

09:50 Current Clinical Issues in Military Pre-hospital Emergency Care
Lt Col Chris Wright | Defence Consultant Advisor for Pre-hospital Emergency Care

10:02 Tactical Combat Casualty Care and the Blast Casualty
COL Kirby Gross | Director, US Army Trauma Training Department

10:14 Physiological Sensors: Do we really need them?
Surg Cdr Mansoor Khan | Senior Lecturer, Academic Department of Military Surgery and Trauma

10:26 Questions and Answers
Session 1 speakers

10:38 Research Highlights 1: Selected Podium Presentations
Dr Thuy-Tien Nguyen | Experimental capabilities of the Centre for Blast Injury Studies
Dr Grigorios Grigoriades | The effect of posture on lower limb injuries in under-vehicle explosions
Dr Angela Kedgley | Interphalangeal joints are stronger than metacarpophalangeal joints: the risk of injury to the small joints of the hand
Dr Nic Newell | Towards a high-rate computational model of the lumbar spine: material characterisation of the intervertebral discs
Mrs Angaja Phalguni | Noise-induced Hearing Loss and Tinnitus in a Military Population: Extent and Nature of the Existing Evidence Base
Mr Jameel Muzaffar | Hidden Hearing Loss and High-velocity Shoulder-launched Weapons: Are We Failing to Protect Against Noise-induced Hearing Loss, Tinnitus and Cochlea Synaptopathy?
Dr Gillian Grafton | Role of the 5-HT System in Tinnitus: A Systematic Study Using an Animal Model
Dr Robert Dickinson | Xenon protects against blast-traumatic brain injury in an in vitro model
Dr Cornelius Donat | An integrative approach to studying tertiary effects of blast traumatic brain injury: combined high-field MRI, computational modelling and advanced histopathology in a rodent model
Maj David Naumann | Endotheliopathy of trauma is likely to be a battlefield
Session 2: In-hospital and Acute Care

13:20    Session Introductions by the Moderators
Col Michael Davis | Director, US Combat Casualty Care Research Program
Lt Col Graham Lawton | Senior Lecturer, Academic Department of Military Surgery and Trauma

13:31  Quantifying Blast Injury
Sqn Ldr Phill Pearce | Research Postgraduate Student, Imperial College London

13:43   The Genomic Response to Trauma
Professor Karim Brohi | Professor of Trauma Sciences, Queen Mary University of London

13:55   Measuring Patient-specific Injury and Response to Injury in Multiply-injured Patients: Precision Medicine for Trauma
Dr Todd McKinley | Professor of Orthopaedic Surgery, Indiana University School of Medicine

14:07   Questions and Answers
Session 2 speakers

14:20   Research Highlights 2: Selected Podium Presentations
LTC David Lidwell | How Far Can We Go: The Evolution of Forward Surgery
Dr Tobias Reichenbach | Improving speech comprehension through mind-controlled hearing aids
COL Anthony Johnson | The Military Orthopaedic Trauma Registry: Potential for Long-term Outcomes
CPT Sean Kelly | Utility of CT Angiography in the Initial Evaluation of Lower Extremity Trauma
Dr Alex Jahangir | Early Comparative Outcomes of Continuous Carbon Fiber-reinforced Polymer Plate in Fixation of Distal Femur Fractures
Dr Hassan Mir | Fixation Strategy using Sequential Intraoperative Examination under Anaesthesia for Unstable LC Pelvic Ring Injuries Reliably Predicts Union with Minimal Displacement
MAJ Joseph Petfield | Risk Factors for Osteomyelitis in Wartime Open Tibia Fractures do not Predict Recurrence of Infection
LT Benjamin Hoyt | Intrawound application of antibiotic powder decreases deep phenomemon and is associated with multiple organ dysfunction syndrome: a prospective observational study
Maj Max Marsden | Enhancing decisions for major haemorrhage protocol activation using a Bayesian Network Model
LTC Jeremy Pamplin | Virtual Health: A Force Multiplier for Operational Medicine
COL (Ret.) Elizabeth Mann-Salinas | Evaluation of the Joint Trauma System Role 2 Registry in Afghanistan

11:35  Tea and Coffee Break

Keynote Address
11:50    Introduction of Keynote Speaker
MAJ(P) Daniel J. Sinner | Visiting Researcher, Imperial College London; US Army Institute of Surgical Research

Keynote Address
MG Barbara Holcomb | Commander, US Army Medical Research & Material Command

12:20   Lunch, Networking and Poster Viewing

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LT Benjamin Hoyt | Intrawound application of antibiotic powder decreases deep
infection and reduces severity of heterotopic ossification in combat-related major lower extremity amputation
LCDR Scott Tintle | Controlling Axonal Regeneration with Acellular Nerve Allografts Prevents Neuroma Formation

15:00  Tea and Coffee Break

**Session 3: Rehabilitation and Long-term Outcomes**

**15:30  Session Introductions by the Moderators**
COL Anthony Johnson | Chairman, Orthopaedic Surgery, Brooke Army Medical Center Custodian of the Military Orthopaedic Trauma Registry
Professor Alison McGregor | Professor of Musculoskeletal Biodynamics, Imperial College London

**15:40  How Early is Early? Early Rehabilitation in Complex Trauma Critical Care**
Maj Peter Le Feuvre | Physiotherapist, Royal Army Medical Corps

**15:52  Opinion to Evidence: Objective Assessment to Guide Prosthetic and Orthotic Practice**
Dr Jason Wilken | Director, Collaborative Research and Development, University of Iowa

**16:04  Advances in Amputation Surgery**
LTC Kyle Potter | Chief, Orthopaedic Surgery, Walter Reed National Military Medical Centre

**16:16  Questions and Answers**
Session 3 Speakers

**16:30  Research Highlights 3: Selected Podium Presentations**
Mr Stuart Campbell | Clinical Rehabilitation Lessons Learned Treating Blast-injured Amputees in Department of Defense Advanced Rehabilitation Center
LTC Jean-Claude D’Alleyrand | Outcomes of Unilateral Femoral Lengthening in Blast-injured Service Members with Bilateral Transfemoral Amputations: A Case Series
LCDR Jason Souza | Targeted muscle reinnervation (TMR) for improved prosthetic control and management of residual limb pain after amputation following high-energy trauma
Dr Claire Higgins | When repair after traumatic injury goes awry
CPT Nathan Franklin | Physical Performance Measures and Patient-reported Outcomes which Predict Future Amputation
Mr Crispin Wiles | Trauma-induced heterotopic bone: what does morphology tell us?
Dr Thomas Robinson | Dispersing Heterotopic Ossification
MAJ Ian Stewart | Long-term Outcomes after Combat Trauma: A Review of Recent Evidence

**17:10  Closing Remarks**

**Drinks Reception and Networking**